	Applica	ation No.	Applicant(s)	
	10/041,	681	YAMAMOTO ET AL.	
Notice of Allowability	Examir		Art Unit	
	 Alan D	iamond	1753	
	Alaii D	lamond	1700	
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REM or other IGHTS.	MAINS) CLOSED appropriate comr This application is	in this application. If not included nunication will be mailed in due course. T	HIS nitiative
1. X This communication is responsive to the amendment filed.	Novembe	er 12, 2003.		
2. X The allowed claim(s) is/are 1,3-11 and 13-42.				
3. X The drawings filed on 10 January 2002 are accepted by the	e Examin	er.		
4. 🔯 Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).				
a) ⊠ All b) ☐ Some* c) ☐ None of the:				
 Certified copies of the priority documents have 	been red	ceived.		
2. Certified copies of the priority documents have	been red	ceived in Applicat	ion No	
3. Copies of the certified copies of the priority do	cuments	have been receiv	ed in this national stage application from	the _.
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:			·	
 Acknowledgment is made of a claim for domestic priority un reference was included in the first sentence of the specifica 				С
(a) The translation of the foreign language provisional a				•
 Acknowledgment is made of a claim for domestic priority up in the first sentence of the specification or in an Application 				luded
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of	this com this appli	munication to file cation. THIS TH	a reply complying with the requirements REE-MONTH PERIOD IS NOT EXTEND.	noted ABLE.
7. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give				F
8. CORRECTED DRAWINGS (as "replacement sheets") mus	t be subr	nitted.		
(a) including changes required by the Notice of Draftspers		_	ew (PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No				
(b) including changes required by the proposed drawing c	orrection	filed, whi	ch has been approved by the Examiner.	
(c) ☐ including changes required by the attached Examiner's	s Amendr	ment / Comment	or in the Office action of Paper No	·
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the				
9. DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT FOR T				
Attachment(s)	10041681			
1☐ Notice of References Cited (PTO-892)	100	5 ☐ Notice of In	formal Patent Application (PTO-152)	
2☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		6⊠ Interview S	ımmary (PTO-413), Paper No. <u>11242003</u>	
3 Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No	141		Amendment/Comment	
4 Examiner's Comment Regarding Requirement for Deposit	WMITCHEL 00000001		Statement of Reasons for Allowance	
of Biological Material	Ö	[gੈ∏ Other		
	8	110.	Alan Diamond	
	黑		Primary Examiner	
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U.S. Patent and Trademark Office PTOL-37 (Rev. 11-03) Notice of Allowability

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EXAMINER'S AMENDMENT

1. An extension of time under 37 CFR 1.136(a) is required in order to make an examiner's amendment which places this application in condition for allowance. During a telephone conversation conducted on November 24, 2003, Mr. Joseph Rhoa requested an extension of time for ONE MONTH and authorized the Director to charge Deposit Account No. 14-1140 the required fee of \$110 for this extension and authorized the following examiner's amendment. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In The Claims

In claim 3, at line 3, after "hole" please insert --formed on the surface of the transparent conductive layer--.

In claim 13, at line 3, after "hole" please insert --formed on the surface of the first and second transparent conductive layer--.

In claim 21, at line 5, please delete a" and insert in its place --the--.

In claim 41, at line 5, please delete a" and insert in its place --the--.

2. The following is an examiner's statement of reasons for allowance: The prior art does not teach or suggest the thin film solar cell of claims 1 and 11, or the subject matter of their dependent claims, wherein in addition to the recited holes on the surface of the transparent conductive layer(s) in an amount of 0.5 to 2 holes per micro square

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meter, there are a plurality of holes formed on the surface of the substrate. Note that each hole of the transparent conductive layer(s) and each hole of the substrate has irregularities formed on its surface. Examples of holes having irregularities on their surfaces can be seen in instant Figure 1 to 3.

The prior art does not teach or suggest the thin film solar cell of claims 23 and 24, or the subject matter of their dependent claims, wherein in addition to the recited holes on the surface of the transparent conductive layer(s), the ratio l₂₂₀/l₁₁₁ of the integral intensity ratio of (220) X-ray diffraction to the integral intensity of (111) X-ray diffraction of the recited i-layer(s) is 5 or more. Note also that each of said holes has irregularities formed on its surface.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the 3. examiner should be directed to Alan Diamond whose telephone number is 703-308-0840. The examiner can normally be reached on Monday through Friday, 5:30 a.m. to 2:00 p.m. ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam Nguyen can be reached on 703-308-3322. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9310.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Alan Diamond Primary Examiner Art Unit 1753

Alan Diamond November 24, 2003